

# Toshihiko Hiejima

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2753137/publications.pdf>

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#	ARTICLE	IF	CITATIONS
1	Shockwave effects on supersonic combustion using hypermixer struts. Physics of Fluids, 2020, 32, .	4.0	33
2	Effects of streamwise vortex breakdown on supersonic combustion. Physical Review E, 2016, 93, 043115.	2.1	21
3	Criterion for vortex breakdown on shock wave and streamwise vortex interactions. Physical Review E, 2014, 89, 053017.	2.1	19
4	Theoretical analysis of streamwise vortex circulation induced by a strut injector. Physical Review Fluids, 2016, 1, .	2.5	11
5	Onset conditions for vortex breakdown in supersonic flows. Journal of Fluid Mechanics, 2018, 840, .	3.4	10
6	Compressibility effects of supersonic Batchelor vortices. Physical Review Fluids, 2019, 4, .	2.5	8
7	A high-order weighted compact nonlinear scheme for compressible flows. Computers and Fluids, 2022, 232, 105199.	2.5	8
8	Helicity effects on inviscid instability in Batchelor vortices. Journal of Fluid Mechanics, 2020, 897, .	3.4	6
9	Effects of fuel injection speed on supersonic combustion using separation-resistant struts. AIP Advances, 2021, 11, 065123.	1.3	6
10	How the circulation and axial velocity deficit in Batchelor vortices affect their disturbance growth?. Physics of Fluids, 2020, 32, .	4.0	4
11	Development of linear unstable modes in supersonic streamwise vortices using a weighted compact nonlinear scheme. Computers and Fluids, 2020, 201, 104416.	2.5	3
12	Development of specific structures occurring from hyper-breakable vorticity. Physics of Fluids, 2019, 31, 071701.	4.0	2
13	On the rapid breakdown of supersonic streamwise vortices with opposite sign double annular vorticity. Acta Astronautica, 2020, 168, 220-229.	3.2	0